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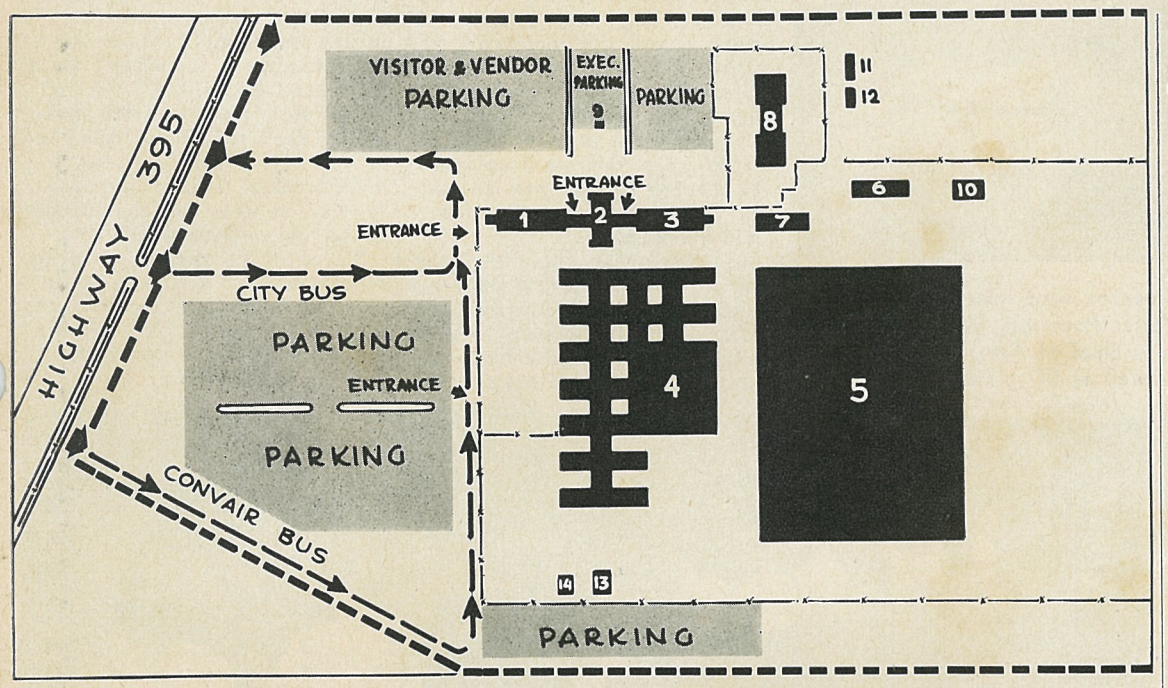
Vol. 11, No. 4 Wednesday, February 19, 1958

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA DAINGERFIELD AND FORT WORTH, TEXAS



TRAFFIC FLOW FOR ASTRO—Sketch shows layout of new Astronautics plant, with parking areas and bus routes. Buildings are marked by their numbers.

Personnel Assigned To Jet 880 Program Approaching 4,000

Convair's 880 jet transport program continues to pick up steam at San Diego as more and more employees join the production team.

A. E. Hill, Plant 1 works manager, reported this week that approximately 3,700 employees were involved in various stages of the 880 program during February. This total is expected to climb to 4,300 in March and to 5,300 by June with as many as 6,000 on the job by fall.

The first 880 is scheduled for factory completion late this year with maiden flight early in 1959.

Fabrication work has been under way for some time and over 6,000 parts have been prepared for major assembly.

"Except for limited 240, 340 and 440 spares production, our entire Plant 1 fabrication organization is now geared for 880 work," Hill said.

During early stages of the 880 build-up, tooling and engineering employees dominated employment totals. For the most part, these functions now have reached a peak. On the other hand, production activities are just beginning to roll.

Much effort in recent months has centered around parts and fixtures for the 880 metal mock-up soon to take shape in the northeast corner of Bldg. 3. In this full-scale "preview" of fuselage and other components, many parts, wiring, connections, etc., will be proofed.

Assignment of key supervisory personnel has kept step over the last year with the mounting tempo.

Assignments have been made under the guidance of A. W. Morgan, assistant division manager—operations, and of Hill with P. G. Osborn (normally Plant 2 factory manager but now on executive development assignment to the 880), E. O. Johnson, Plant 1 factory manager and S. J. Barinka, 880 superintendent, directing production work as well as contributing to the selection of key personnel.

Superintendents already on the job include: A. R. Johnson, fabrication; J. F. Glenn, fuselage;

(Continued on Page 2)

DEADLINES NEAR FOR SCHOLARSHIPS

Within 10 days time will have expired for entering two major scholarship programs open to children of San Diego and Astronautics employees.

Friday (Feb. 21) is the final date for entering the Convair SD Management Club contest. At stake are two $1,000 scholarships, plus four $100 Savings Bonds to runners-up. Both boys and girls of Astro and San Diego employees are eligible if they graduate in January or June of this year.

Feb. 28 is the final date for filing for the annual Convair sons scholarship program which leads to a degree in engineering or an allied science. San Diego Division this year will award two scholarships, Astronautics one.

Rules differ in the programs. Information is available through all Convair training offices.

Naish to Emcee Next SD 'M' Club Meeting

J. V. Naish, Convair executive vice president, will emcee the Management Club meeting next Wednesday (Feb. 26) at which Robert C. Tait, Stromberg-Carlson president, will be chief speaker.

Members of the General Dynamics Corporation Board of Directors, who will be meeting in San Diego that day, have been invited to attend.

The program will include presentation of two "President's Awards" for outstanding cost reduction efforts. One will go to an Astronautics man and another to a San Diego Division man. The evening is sponsored jointly by General Offices and the controllers departments of both divisions.

City Bus Lines Plan Daily Service For Astronautics Plant

San Diego's Metropolitan bus lines have indicated they will operate the following bus routes to the new Astronautics plant. Schedules are effective March 10 and may be altered to fit the demand.

Route "D" from La Jolla departing at 6 a.m.:

From intersection of Girard Ave. and Silverado St. looping Silverado, Ivanhoe, Wall and Girard then down Girard to Pearl, La Jolla Blvd., Turquoise, Mission Blvd., Clairemont Drive, Clairemont Mesa Blvd. and Kearny Villa Rd.

Route "G" from downtown departing at 6:15 a.m.: from intersection of Third and Broadway to Fifth Ave., University Ave., Sixth St. extension, Highway 395, Clairemont Mesa Blvd. and Kearny Villa Rd.

Route "J" from Ocean Beach departing at 6 a.m.: from intersection of Voltaire and Cable via Cable, Orchard, Chatsworth, Narragansett, Macaulay, Plum, Lowell, Rosecrans, Taylor, Morena Blvd., Linda Vista Rd., Highway 395 and Kearny Villa Rd.

Fares on these lines range from 35 to 20 cents depending on zones.

No service is contemplated from East San Diego, although connections between Routes 1, 7 and 11 and Route "G" may be made at Fifth and University.

Pomona Awarded New Terrier Order

Convair Pomona has been awarded a $26 million Navy contract for the production of guidance and control sections for Terrier missiles.

More than half of the missiles involved will be allocated to the Marine Corps.

'Move Day' Approaching For 2,000 Astro Folk

"Move day" for over 2,000 Convair Astronautics employees is just around the corner. The balance of the division will follow to the new Kearny Mesa plant in due course of time.

Present schedules call for the first major move to take place during the first weeks of March.

Initially, a series of interim moves was contemplated last fall as space became available at the new plant. However, this idea was discarded in favor of the present plan which calls for transfer of Astro's entire operation over a relatively short time span.

Twin six-story office buildings at the new plant will receive the first employees to make the transfer.

Transfer of personnel to the new site for the most part will be overnight or over weekends. A contract with a Los Angeles firm has been let for the movement of equipment, desks and machinery.

Overall responsibility for the move is vested in the "master move group" headed by Charles Marvin. It includes representatives of various functions serving on an "as needed" basis.

Every effort is being expended to make the move an easy one for individual employees. Each employee will receive specific instructions on when to report at the new site, timed to coincide with equipment transfers.

In addition to a thorough briefing on details of the move from within each group, individuals will receive in advance a pamphlet prepared by Astro communication department. Included will be layouts of the new site and useful information.

Employee services has circulated rider-driver cards to all early movers. They will go into a new master file. Employees unable to find rides or riders in their own sections may contact ext. 1202, Plant 1, for assistance.

At present, service facilities at the new plant are scheduled to begin operation March 10, though some will be limited at first. For instance, the plant cafeteria dining room will be opened at that time, although food will be brought out daily until the new kitchen is completed.

Astro's transportation starting March 10 will operate chartered buses between the site and Plant 1. In addition, station wagon service to offsite locations will be expanded to include the new plant. A dispatcher and a limited number of cars and drivers will be assigned to the new plant.

Telephone, teletype, Western Union and mail services will be operative March 10 and parking lots opened along with four pedestrian entrances.

W. E. Bowman, Astro security chief, this week cautioned employees against entering construction areas at the new site.

"There are deep holes, exposed electrical wires, machinery and equipment moving about and men working overhead," Bowman said. "Employees must remain in those areas opened for use."

CANADAIR TO BUILD 440S IN TURBOPROP

The design made famous on a succession of Convair-built transports is destined to continue, although the final Convair 440 Metropolitan is now rolling toward factory completion at Convair San Diego.

Canadair, Limited, a subsidiary of General Dynamics Corporation, is taking over the 440 tooling to produce turboprop versions of the design for the Royal Canadian Air Force and commercial airlines.

To be known as the "Canadair Cosmopolitan," the turboprop will be powered by British Napier Eland-6 engines. The Cosmopolitan will have a gross weight of 53,200 pounds, cruise speed of 326 miles per hour, a payload capacity of 44 to 60 passengers or 10,000 to 15,000 pounds of cargo and a maximum range of 1,700 miles.

First deliveries are scheduled for late this year. The RCAF versions of the transport will be known as the CL-66.

Canadair announced it will take over complete tooling and set up production at its Montreal plant.

Materials Build-up Under Way For Bldgs. 5, 51 Rehabilitation

The area behind Bldg. 54-A at Convair San Diego's Plant 1 is rapidly taking on the aspects of a building center as contractors begin to assemble material needed for the rehabilitation of Bldgs. 5 and 51.

James Stewart Co., holders of a $2½-million contract for the job, took over the area in late January and began gathering tools for the work ahead.

Actual work on the project starts shortly after March 1 with the removal of the wall between Bldgs. 5 and 51 in the area of the Experimental Factory. The wall will be revamped and replaced.

Other tasks calling for exterior work will also start in the near future.

Major internal efforts will begin shortly after Astronautics personnel begin to move into the new Kearny Mesa plant site. As areas now occupied by Astro are vacated, employees working in various parts of Bldgs. 5 and 51 will be shifted during renovation of their areas.

Among the first to move will be customer services employees who will transfer to temporary quarters in Bldg. 4. Meanwhile, weekly meetings continue between contractors and various Convair SD functions concerned with the project.

Senators Told Convair's Production Capability

Convair could deliver more weapon systems and deliver them quicker "if the national attitude were more appropriate to the threat," T. G. Lanphier Jr., Convair vice president, told the Preparedness Subcommittee of the U. S. Senate Armed Services Committee in Washington, D. C. last month.

Stating that in his opinion the general public is uneasy but not fully aware of the extent of the threat to national security, Lanphier stated, "It is not enough for (a comparative few) to know (the threat) . . . All the people should know . . ."

The senators, inquiring into the state of the nation's defenses, questioned many of the top aviation figures in the country. Appearing with Lanphier for questioning were J. R. Dempsey, manager of the Astronautics Division, and Krafft Ehricke, assistant to Astronautics' technical director. Comment from senators indicated that the Convair witnesses made excellent impressions on the subcommittee.

The complete text of Lanphier's prepared statement, delivered prior to extensive questions and answers in both closed and open sessions, follows:

"In a recent analysis of testimony to date during this significant hearing, your chairman observed that, among other things, it is apparent that 'our national potential exceeds our national performance.'

"On behalf of the Convair Division of General Dynamics Corporation, it is my privilege to respond to such questions as you may have regarding the capabilities of my company, as a part of that national potential, to exceed the performance currently being asked of it as a producer of weapons and weapon systems for the Defense Department.

"In general terms, Convair and its sister divisions in the General Dynamics Corporation are engaged in basic research, or in the development, or in the production of manned and unmanned weapons and weapon systems for the defense of this country and its allies against attack from the air, from on or under the sea, or from outer space.

"In all these fields, we could produce many more weapon systems than we are presently being asked to deliver. And,

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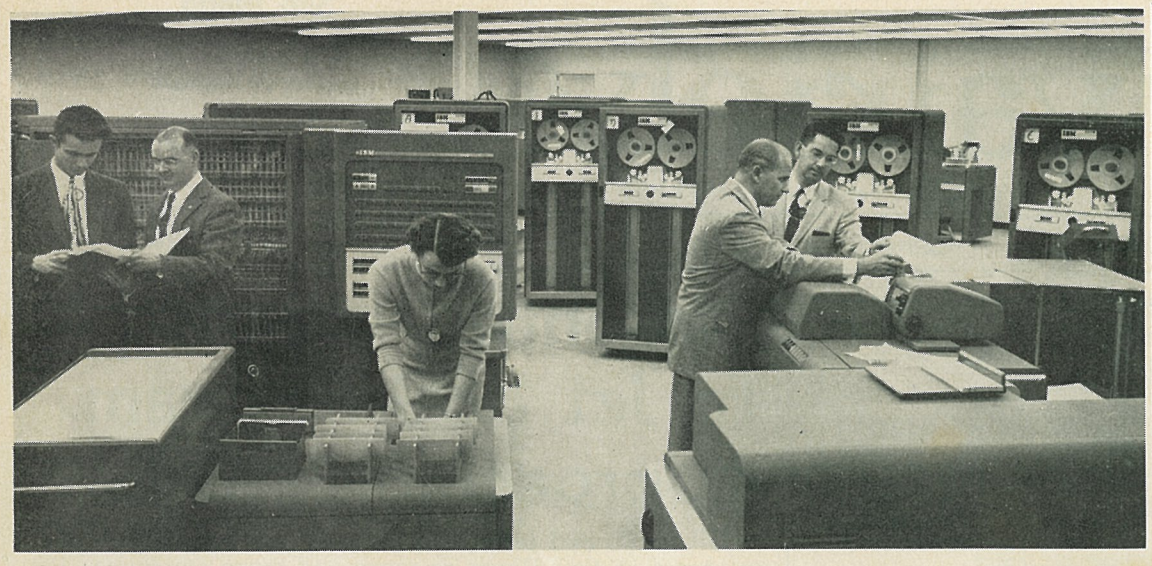


ROLLING—First machinery in Astronautics' new data reduction center went into operation early this month. Shown with the IBM 704 set-up are, left to right, Walter Pomeroy, W. T. McKinney, Bonnie Wenzel, W. H. Schwidetzky and W. W. Varner. Schwidetzky is chief of Astro's computer and flight simulator section. Data is shuttled here from offsite bases as well as SD plants.

Personnel Assigned to Jet 880 Climbs Toward 4,000 at SD

(Continued from Page 1)

F. E. Grossher, wing; and H. G. Rote, final assembly and field operations.

Some general foremen have been named to head new departments, doing 880 production work. Other supervisors are now doubling between the diminishing 440 program and the increasing 880 effort.

Assignment of hourly employees to production activities is taking place as necessary.

"We are shifting employees to the 880 project just as fast as various factors will allow," Hill indicated.

In addition to the direct factory efforts, supporting units are quickly lining up 880 work units. Material, quality control, inspection, manufacturing control and many others fall into this category. Experimental factory, as in the past, is lending vital assistance during early stages of the work program.

Responsibility for the 880 program lies directly with the division manager and his master group. However, two noteworthy committees have grown out of initial planning. One is a "steering committee," the other a "first lot control committee."

The steering committee makes policy decisions. It is composed of men from all functions who meet weekly. This group makes regular reports to the master group and to General Offices.

The first lot control committee concentrates on action at the factory level. It, too, includes key persons from every function who meet weekly to help work out immediate problems.

Data Reducers Among Earliest 'Settlers' at New Astro Plant

Part of Convair Astronautics' data reduction center is now in operation at the new plant, among the first activities to get under way at the Kearny Mesa site.

Equipment which ultimately will be part of one of the most complete data reduction and computing centers in the country is being operated by the computer and simulator section of Astro engineering.

First actual processing of data took place Feb. 6 with an IBM 704 unit known formally as an "Electronic Data Processing Machine." W. T. McKinney directs the small machine room work force at the site.

Valued at over $3 million, the IBM 704 is one part of the data center which will have over $10 million worth of equipment when completed, according to W. H. Schwidetzky, Astro chief of computers and simulators.

Astronautics has been sharing similar equipment for months with the San Diego Division. Together, the divisions have worked a three-shift day during peak use periods. Duplicate equipment makes work exchange possible between the two.

Schwidetzky described the IBM 704 as the latest digital computer available. It is made up of 29 separate machines, most of which are interconnected. The machines can solve any problems which can be reduced to mathematical form.

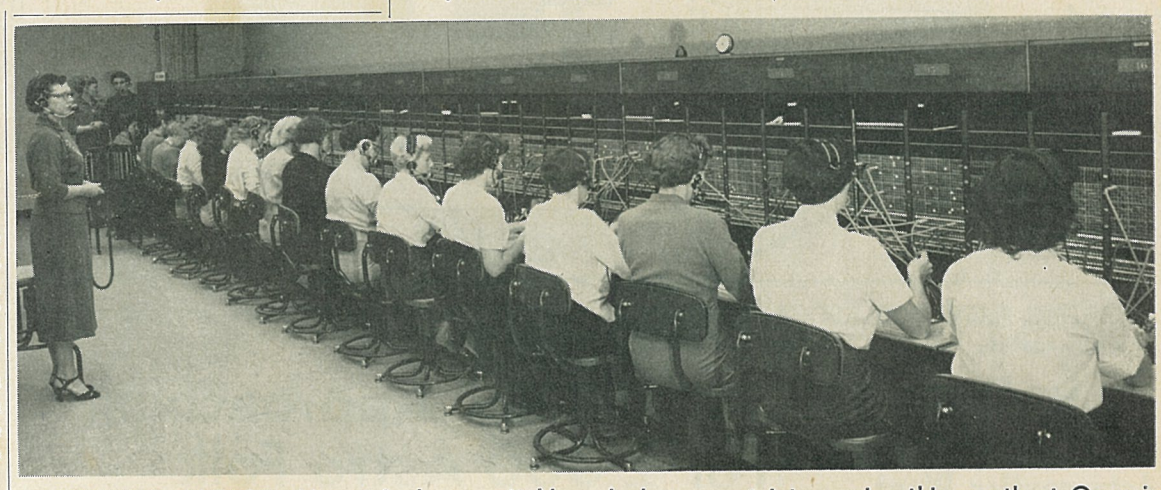
When completed the installation will have 32 separate units.

Problems arising in engineering or production share machine time with those originating at Atlas test sites. These sites rush problems to San Diego by air and often receive answers within 24 hours.

Solutions require a few seconds or a few minutes, depending upon their complexity. Answers are obtained on magnetic tape, tab cards or printed sheets.

In brief, a problem is solved by a programmer who states the problem in coded signs and figures which signify what is known and unknown and how the machine is to arrive at a solution. Codes are transferred to punched tab cards and fed into the machine. Answers come out on tape.

The 56- by 56-foot computer room is maintained at a constant temperature to protect the intricate machinery.



NUMBERS, PLEASE—New telephone switchboard above went into service this month at Convair SD. Located in Bldg. 8, Plant 1, $80,000 system is one of most modern in the West. Board has 16 positions, gives increased service to Convair users.

FLEET OF SEDANS PUT UP FOR SALE

Seventeen 1955 Chevrolet sedans have gone on the block for sale to the highest bidder at Convair San Diego.

The Convair cars are all six-cylinder, four-door models equipped with heater and defroster and standard transmissions. They are on display daily through the week from 8 a.m. until 4 p.m. near the Plant 1 compass rose. They may also be seen between 10 a.m. and 12:30 p.m. on Saturdays.

Employees wishing to bid on the cars must enclose a $100 deposit in cash or certified check with each bid. Individuals are required to purchase all cars on which they submit high bids. Successful bidders must pay the balance due and pick up their cars within five days following notification.

All bids will be opened at 1:30 p.m. Feb. 27.

Further information is available by contacting the material sales office, Bldg. 39, ext. 1609, 2124 or 754, Plant 1.

Tax Deductions For SD Listed

Astronautics, San Diego and General Offices employees planning to itemize their medical deductions on 1957 income tax returns were reminded this week of two deductions.

Those carrying dependent insurance may deduct $1.88 weekly for the first six months of 1957 (through June 30) and $2.25 weekly for the remaining period. This applies ONLY to those carrying dependent insurance.

In addition, 13.6 per cent of the disability insurance premiums paid by employees was applied toward hospitalization insurance and is deductible. Those earning $3,000 or more paid $30 disability insurance and may deduct $4.08. Those earning less than $3,000 paid one per cent of their wages in disability insurance. Thus 13.6 per cent of that amount is deductible.

Mobile Blood Unit Visits SD Tomorrow

Four buildings at Convair SD's Plant 1 will send volunteer donors tomorrow (Feb. 20) when the San Diego Blood Bank brings its mobile unit to replenish the dwindling Convair SD credit.

Volunteers from Bldgs. 1, 5, 7 and 19 will turn out for the day shift visit.

The January visit of the bloodmobile produced 136 pints to Convair's credit with volunteers from Bldgs. 5 and 51 donating.

Monroe Jones First To Gain Industrial Management Degree

Monroe Jones (Dept. 8) of Convair SD this month finishes courses leading to a Certificate in Industrial Management, first ever presented at San Diego State College.

Monroe Jones

The program was started in 1955 through the efforts of educators and industrial firms. Convair men who have served as members of the committee setting up and directing the program are M. G. Burland and H. R. Taylor of General Offices, A. P. Higgins and R. H. Gilliland of Convair SD and T.W. Wills of Astronautics.

Many Convair men are now taking courses leading toward certificates. Grade point levels in the entire program have been set at a very high level so that only those with above average performance may pass.

McNARNEY CHAIRMANS SCOUT FUND DRIVE

Convair President Joseph T. McNarney has accepted the honorary chairmanship of the Boy Scouts Capital Funds campaign in San Diego. The campaign will raise money to purchase and develop the 679-acre Mataguay Scout Reservation near Warner Hot Springs.

TICKET SALES FOR SPRING STYLE SHOW START TOMORROW

Spring fashions "Through the Looking Glass" will mirror Easter styles for Convair SD and Astro ladies March 12 in the Palm Room of the U. S. Grant Hotel, 8 p.m.

Tickets will go on sale tomorrow (Feb. 20) at $1 each at employee services, both SD plants, and at Rose Canyon by contacting Della Ruhnow or Dorothy Kniffen, ext. 83-2036.

Special "Alice in Wonderland" theme will highlight the annual CRA spring fashion show, said Martha Woodberry, SD commissioner of women's activities. Edith Antelline will introduce the models styling a wide range of dressy ensembles and sportswear from Stevenson's of La Jolla, complemented by furs from Graf's.

Models, all Convair women or Convair daughters, will be Jan Cyliax (Dept. 5); Dorothy Hagan (Dept. 4); Barbara Blake (Dept. 1-23); Deanna Day (Dept. 129); Maye Creed (Dept. 4); Shirley Brownlee (Dept. 6); Lucy Hayden (Dept. 91); Elinor Brown, AF; Jo Ann McDonough (Dept. 310); Beverly Dray (Dept. 532); Edith Sutliff (Dept. 3); Isobel Maas (Dept. 8); Sally King, daughter of Anne King (Dept. 3); Beverly Nelson, daughter of Margaret Nelson, BAR office; Allison Aguilar, daughter of J. M. Aguilar (Dept. 3); Suzette Martino, daughter of A. J. Martino (Dept. 406); and Pamela Rice, daughter of Elaine Jorgenson (Dept. 450).

Inter-Plant Dialing Given New Numbers

A new telephone system became operative at Convair SD's Plant 1 last week.

Calls between Plants 1 and 2 are preceded by the number 81.

Between Plants 1 and 2 and Rose Canyon the number is 83.

Rose Canyon reaches Plant 1 by dialing 5 and Plant 2 by dialing 6.

In each case, these numbers are followed by the extension desired.

Two new numbers at Plant 1 are 2601 for long distance or toll calls and 1958 for public address (paging) system. Plant 2 numbers for these functions remain the same.

Present numbers at Plant 1 between 300 and 399 are discontinued. To reach these numbers dial 29 followed by the last two digits of the former number. (Extension 399 is now 2999, etc.)

M. C. Terry Appointed To Holloman Post

M. C. Terry, for several years an engineering test pilot at San Diego, this month took over as manager of the Convair facility (Dept. 313) at Holloman Air Force Base, New Mexico.

A World War II Army fighter pilot, Terry left the service to join Convair in 1952. In 1955 he left to become chief of flight test for Cessna Aircraft at Wichita, Kan. Originally from Iowa, he attended Stanford University, University of Mississippi and University of Florida.

HOLD IT!—Scene above was repeated many times during past weeks as Astro personnel turned out for new ID photographs. Security personnel processed from 700 to 800 daily. Work switches Monday to Edwards Rocket Base after several days' stay at Sycamore Canyon.

★ Convairiety ★

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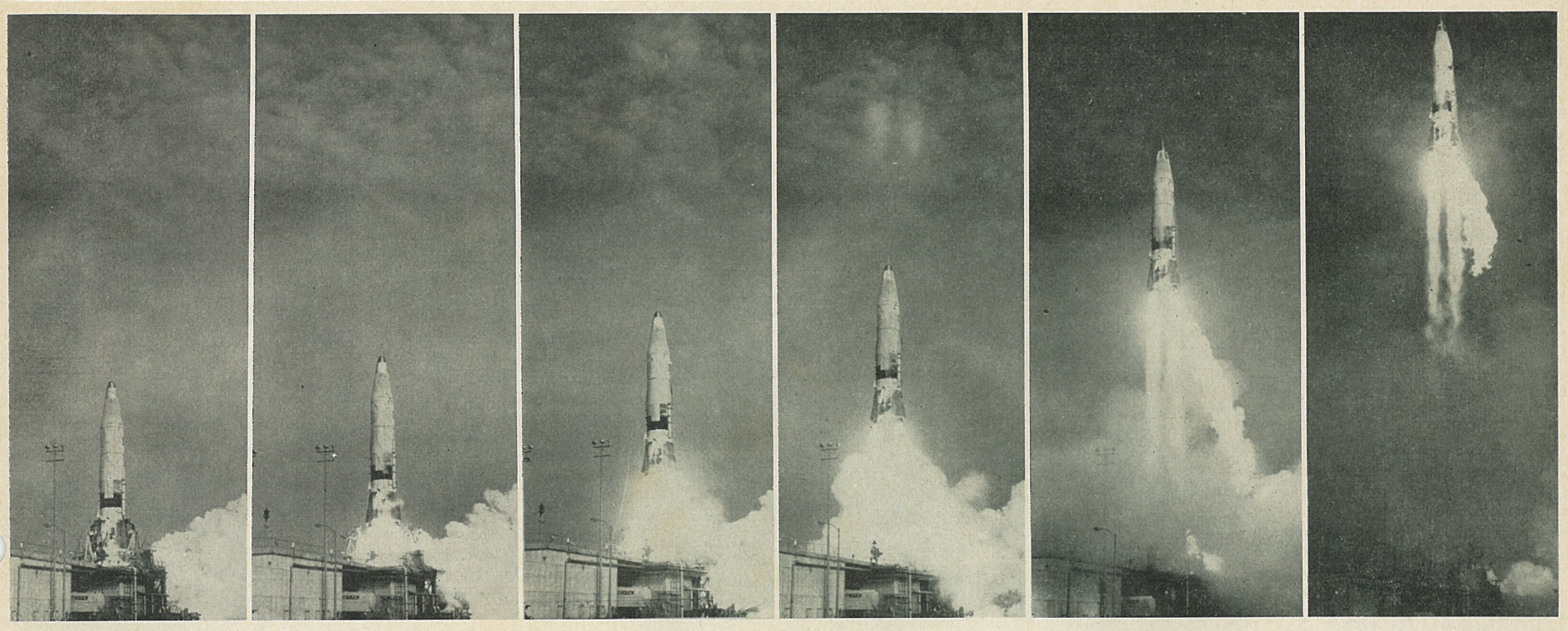
Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8. Staff: James Combs Jr., news editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.



TAKEOFF—First photos released by AF of Atlas launching were taken by high-speed sequence camera at Jan. 10, 1958, flight from Cape Canaveral, Florida. At left engines are fired and missile strains at launcher arms which hold it to pad. In second picture arms spring away and Atlas lunges upward. As missile progresses it climbs clear of own wake. Plume of flame at right is exhaust from fuel system turbopumps. Expendable launcher tubing is left behind, burning, on pad.

Astro Man is Credited With First Recording of Satellite Signal

Credit for making the first independent recording of a United States satellite signal goes to a Convair Astronautics man stationed at Edwards Rocket Base.

Accomplishing the feat was A. H. Bishop (ERB Dept. 575-3) in cooperation with staff announcers Bob Kuyper and Jim Fitzgerald of Antelope Valley radio station KAVL.

Their recording of the Explorer's "beep-beep" was turned over to United Press and received wide play on network stations in addition to KAVL.

Although at least one prior recording was made by technical people directly connected with the project, UP credits Bishop with the first independent effort.

Working without a timetable of any type and with only satellite launching time as a guide, the three Antelope Valley men made their own computations, which were so accurate that their estimated time of signal reception was just one-half minute off the actual time.

Their recording was made at 1:28 a.m. Feb. 1 at the KAVL transmitter site west of Lancaster using very sensitive hi-fidelity equipment. Their tape runs for about three minutes.

Bishop, a missile systems instrumentation technician at ERB, is Antelope Valley disaster communications director for Civil Defense.

SPUTNIK TRACKERS—Active group at San Diego is tracking satellites and sending data to Smithsonian Astrophysics Laboratory as sideline project to assist laboratory. From left, Bob Weaver, Don Conover, Tom Hemphill (kneeling), Waldo Darracq (partly hidden), all of engineering, and Ben Dalbo, photo lab. Photos, carefully keyed to radio time signals, permit spotting satellite's position among star background. Two teams are operating.

Volunteer Sky Watchers at SD Monitor And Photograph Satellites For Science

"57 Beta One" and "58 Alpha One" are keeping things humming for a group of volunteers at Convair San Diego. And "58 Beta One" will likely appear soon to add to the task.

These strange sounding terms are used by volunteer "moon trackers" and are quite simple. The members refer to the year, Alpha means first, Beta means second, the written "one" signifies the satellite and its booster are still joined. Thus, 57 Beta One is the second satellite launched in 1957. It was put into orbit by the Russians. And 58 Alpha One is the United States' Explorer.

The volunteers keep track of each pass of the satellite over San Diego by tape recordings and whenever possible by photographs. Their numbers include radio operators, photographers and astronomers. All work in their spare time and turn their findings over to scientific groups for compiling.

Tom Hemphill of SD engineering pre-design heads the group which can still use qualified personnel, mainly radio operators with the proper equipment. Those interested may contact him at ext. 626, SD Plant 1.

AF OFFICERS VISIT CONVAIR SD ON TOUR

Four Air Force officers who are taking part in the Air Force's "Training With Industry" program at North American were special guests at Convair SD early this month. They are: Lt. Col. R. W. Rood, Majors B. A. Hurlbut, Philip Steiner and Capt. A. A. Fitzpatrick.

FW Delegation To See Schools

For the seventh consecutive year Convair Fort Worth will sponsor a chartered bus for a Convair delegation to participate in Public Schools Week, March 3-7.

L. L. Turner, special assistant to the division manager and member of the Fort Worth Public School Week committee, said 30 members of management will travel by bus to "spend a day at school." The group will visit an elementary, a junior high, and a high school.

"Convair is vitally concerned in how well the young people of our community are being prepared to take the reins of democracy," Turner said. "Education of our children these days becomes increasingly important toward preservation of our way of life."

Public Schools Week in Texas was started in 1951. It is a period in which all citizens are invited to visit schools, sit in on classes.

Thomas Faulconer Now IAS Associate Fellow

Thomas P. Faulconer of Convair SD pre-design has been elected an associate fellow of the Institute of Aeronautical Sciences.

Faulconer first came to Convair in 1935 following graduation from the University of California with a B. S. degree in mechanical engineering. He left the company in 1949 to become a consultant and later was president of Jet Air Engineering Corp., returning to Convair in 1955.

Electronic Reliability

H. C. Werner, U. S. Naval Electronics Lab, will speak on "Recent Trends in Electronic Reliability" at the Feb. 27 meeting of the American Institute of Electrical Engineers at San Diego.

All interested Convair SD and Astro people are invited to attend the 7:30 p.m. session at the U. S. N. E. L., lower conference room of the main building.

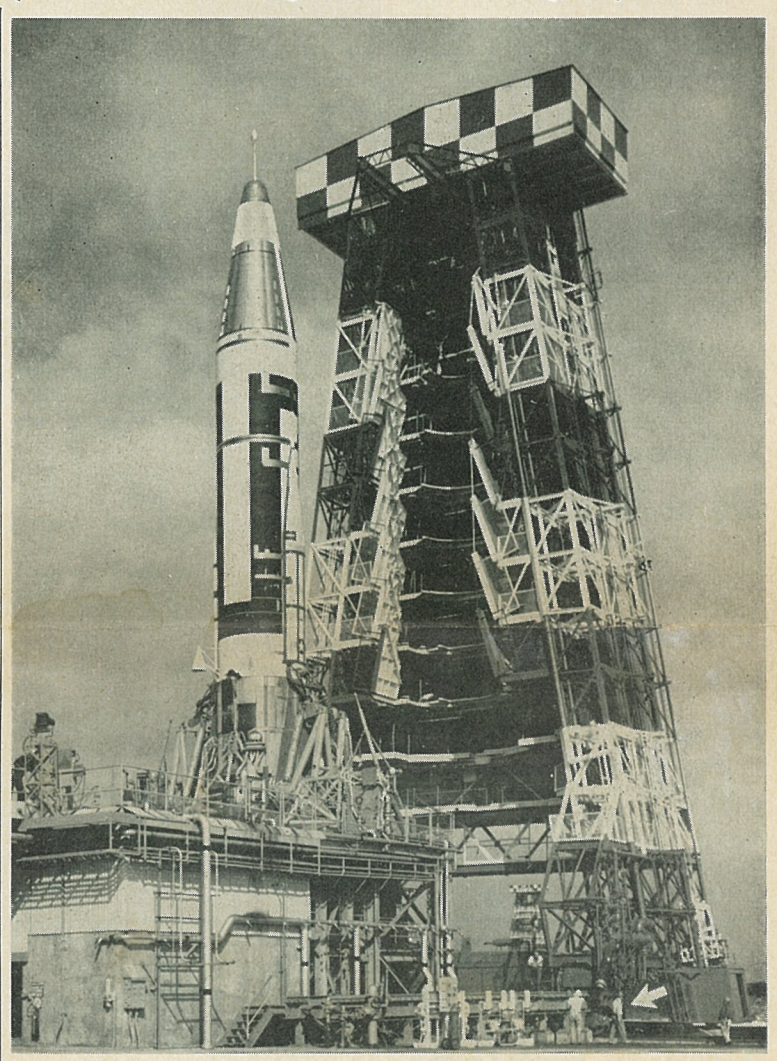
Auto License Sale Starts Next Week

Automobile licenses go on sale for Convair Fort Worth employees next Monday (Feb. 24) in the cafeteria. Sales continue through Wednesday (Feb. 26).

A clerk will be on duty each day from 11 a.m. to 12:55 p.m. and from 3 to 4 p.m. for convenience of employees, according to T. G. Croft, chief of employee services.

Price of license tags has increased about 10 per cent over last year. Applicants must present Texas certificate of title and last year's registration receipt. Personal checks will be accepted.

Out-of-state transfers will not be handled.



ROLL AWAY—Gantry tower used in readying Atlas for flight is rolled away from launch stand in this photo. Note comparative size of men (arrow) and missile.

Score From FW Go to Edwards Anticipating Hustler's Arrival

A handful of Convair Fort Worth people had a ready-made reception committee waiting at Edwards Air Force Base in California last week—even before the takeoff of the Phase IV supersonic B-58 Hustler for the Air Force test center.

The delegation was the first contingent of Convair Fort Worth customer service representatives who will assist Air Force people in seeing that the Phase IV plane is kept in top shape during the test program.

The plane is the first assigned to operate for an extended length of time away from home base in Fort Worth.

G. J. Foster is assistant supervisor of the first customer service team to take the field. Each member of the team wears a Dept. 85 badge—customer service.

The team includes customer service engineers, aircraft maintenance specialists, and representatives from the spares department. Also, vendor representatives will coordinate through Foster.

Foster reports to G. S. Green, assistant manager of customer service. J. T. Cosby is manager of the department, which was created last December.

Convair created customer service to help the Air Force get maximum value from every dollar spent on B-58s.

"The team in the field also can draw on specialists in the plant where necessary," said L. P. Rader, customer service assistant supervisor.

Aircraft maintenance specialists at Edwards were drawn from qualified shop people at Convair Fort Worth.

Control engineers George W. Clifton and C. R. "Chuck" Wilson —men who have lived with the planes for some time—also are at Edwards. The customer service crew will number about 20 people.

The Edwards AFB-based tests will be Air Force controlled. People from Convair Fort Worth will assist and instruct Air Force people conducting tests and maintaining the airplane.

"Key Air Force personnel have gone through extensive classroom briefing at Convair Fort Worth," Rader said. "Our people will help polish off their maintenance techniques."

Capt. C. C. Bock will pilot the Phase IV airplane for the extensive test program. Bock completed familiarization flights at Convair Fort Worth before taking the delta-winged bomber to Edwards.

Handicap Round-Robin Doubles Arranged For Tennis Players

A handicap round-robin doubles tournament will kick off the annual membership drive of the Convair SD Tennis Club March 8-9 at Balboa Tennis Club, announced Chet Dutton, CRA commissioner.

"The meet will be conducted under the same rules used in the club's successful December turkey tourney," said Dutton. "Play however, will be extended over a two-day period to give all participants an opportunity to enjoy maximum tennis activity."

All members and prospective members are urged to register before 5 p.m., March 3, at Balboa Tennis Club, Park Blvd. near Upas. Fee is $1 per person. First Saturday event will be at 10 a.m. and refreshments will be served both afternoons.

Convair SD and Astro netters may, for the third year, obtain individual membership privileges in the Balboa Tennnis Club through CRA arrangements. According to recent renewal of the affiliation agreement for the current year, CRA will defray half of each membership fee. Occasional players will be welcome as guests of the club.

Table Net Players Will Clash Feb. 25

Second monthly tournament in the Convair SD table tennis quest to name the "player of the year" has been set for Feb. 25, Commissioner Pete Beyrer said this week.

Second shift players will meet at 1 p.m., while first shift competitors will gather at 6 p.m. Play is held in the CRA Clubhouse. Deadline for entering are the times above.

Monthly tournaments in both "A" and "B" play will be held throughout the year with the player in each bracket earning the top awards. In addition, trophies are awarded at each monthly event.

SD and Astro Bridge Players to Compete

Convair SD and Astro bridge players will compete in the first master points tournament of the CRA Bridge Club on March 13 at the Barcelona Hotel, 4th & Juniper, 7:30 p.m.

Master points tourneys will be conducted under American Bridge League rules the second Thursday of each month, said Pete Beyrer, CRA commissioner. Other sessions are held first and third Tuesdays and fourth Thursdays.

Further information may be obtained by contacting Archie Bowden, ext. 779 or 1447, Plant 1.

Round-Robin Chess Begins Next Week

First competition in the annual Convair chess championship tournament at San Diego is slated for next Wednesday (Feb. 26), announced A. E. Munson, CRA commissioner.

All Convair SD and Astro chess players and their families are eligible to compete in the round-robin tourney with registration at the CRA Clubhouse the first night of play before 7:30 p.m.

Trophies will be awarded for the three highest standings in championship and A classes, and Class B, if enough entries warrant a third class.

With the recent affiliation of the Convair club with the U. S. Chess Federation, tournament standings will be rated with the national group for the first time.

The tournament is expected to run between eight and 12 weeks with weekly sessions each Wednesday night.

Swim Nights Resume Saturday, March 8

Convair family swim nights will resume Saturday (March 8) with the reopening of the Mission Beach Plunge. Free admission tickets are available to all SD and Astro people at employees services, both plants.

The swim nights will be held the first Saturday of each month, 7 to 9:30 p.m. throughout the spring and summer.

Badminton Practice Sessions Planned

Beginning March 1, badminton activities at Convair San Diego are being revamped to provide more competition for Convair participants, according to Commissioner John Leib.

Experienced players will now meet at the Federal Bldg., Balboa Park, on weekends to take part in Industrial Recreation Council activities. Tuesday nights (7:30 p.m.) are reserved for a series of instruction sessions.

Leib asked this week that players interested in either phase of the new program contact him at ext. 1125 for details.

Live Models to Pose For SD Camera Club

A lighting demonstration with live models will be conducted by Mrs. Beulah Ross, photographic instructor, at the Feb. 24 meeting of the Convair SD Camera Club in the Photo Arts Bldg, Balboa Park, 7:30 p.m.

Mrs. Ross also will continue her discussion of development techniques, said C. E. Schultz, CRA commissioner, who urged all interested Convair camera enthusiasts to be present.

Winners of the first quarterly contest were John Cates and Kenneth Rinker for color prints, Matt Beddow and Schultz, black and white.

Club Keglers Bowl In National Contest

Convair SD Management Club keglers, top contenders in past National Telegraphic bowling events, posted some notable scores early this month as they staged their annual event.

Bill Nader rolled a remarkable 278 game, 641 series to pace the "440s" to a scratch series total of 3,076. Jim Hayman's 644 handicapped series was high in this 825 division.

"Captain" Al Lutz's Accounting five of the 775 division rolled a series total of 3,175, one of the highest totals registered in the national event. Art King paced this division with a 624 scratch series while Ben Schroeder's 699 handicapped series was high.

E. V. Laird, Dept. 8, was tournament director for the local event.

Reservations Taken For CRA Picnic Area

Reservations already are being taken for CRA's "Pecan Park" picnic area for departmental functions beginning June 1.

All weekends and holidays will be reserved for different departmental picnics. Week days will be open for family gatherings though groups of more than 10 should make reservations through CRA at ext. 1245.

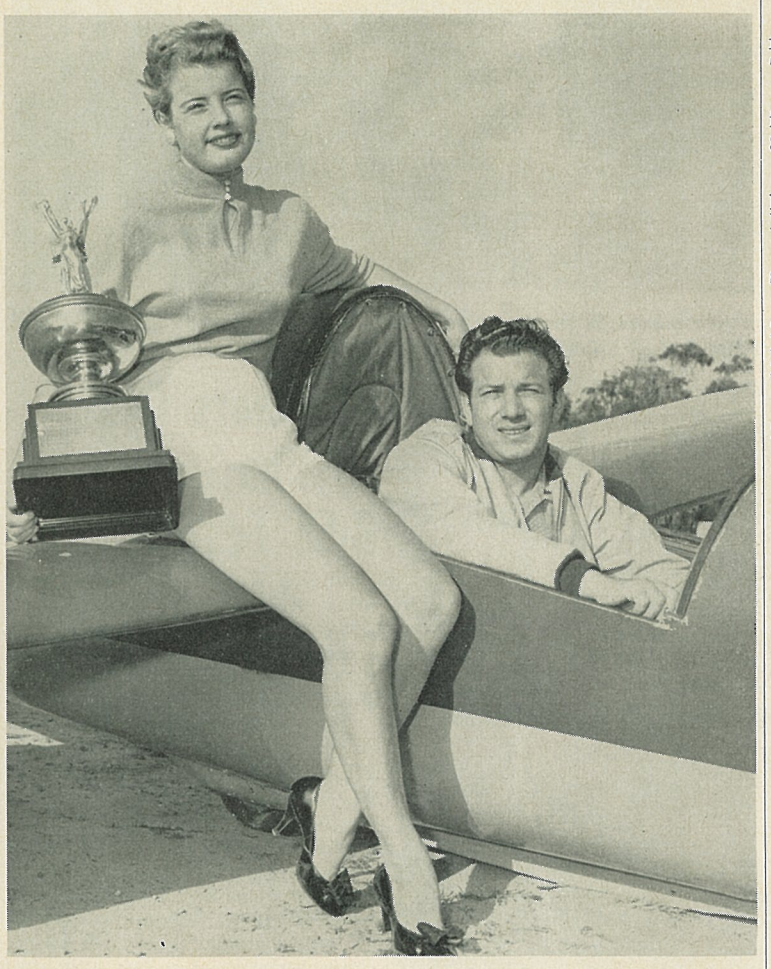
REGISTER NOW FOR ASTRO GOLF EVENT

Registration for the Astro golf sweepstakes, to be held March 1-2 at the Circle R course, closes Feb. 27, said Art King, CRA commissioner. Entries may be registered with Juanita, ext. 1158, Plant 1. The sweepstakes will be a best nine-hole and blind bogey meet.

CAPUCCINI EQUALS CRA BOWLING MARK

While competing with the Wreckers team in regular CRA keg competition at Pacific Recreation recently, John Capuccini of SD Dept. 115 rolled a 275 game, equalling the feat of Lee Worden, SD Dept. 31, who set the mark last December.

CRA Sports & Recreation Convairiety



GLIDER QUEEN—Jo Ann McDonough of Astro Dept. 310, queen of the 12th annual Mid-Winter Soaring Championship, displays one of the trophies for the Feb. 22-23 meet at Torrey Pines. Pilot is Duke Mancuso (SD Dept. 6), last year's second-place winner.

Convair Glider Pilots Ready For Mid-Winter Soaring Meet

At least four Convair SD and Astro glider pilots will vie in the 12th annual Pacific Coast Mid-Winter Soaring Championship this weekend, (Feb. 22-23) at Torrey Pines.

Duke Mancuso (Dept. 6), last year's runner-up, will be shooting for top award, the Montgomery Memorial Trophy, in his Schweizer 1-23 high performance sailplane.

Sterling Starr of SD aerodynamics, member of the winning 1956 Olympics soaring team, will fly the Associated Glider Club's new Schweizer 1-26. Starr attained an altitude of 36,000-ft. over Bishop, Calif., and distance of 331 miles cross country to Bryce Canyon, Utah, last spring.

George Tweed, Astronautics engineer, will compete in his BG-17 sailplane with Eugene Whigham, senior flight test engineer, acting as crew chief.

Nearly 20 sailplanes are expected to enter the duration flights, spotlandings, bomb drops, altitude, distance, and acrobatics events starting at 10 a.m. each day. Awards will be given at the contest site at the close of the Sunday afternoon program. J. R. Spurgeon (Dept. 6) will again emcee the show, co-sponsored by the Associated Glider Club and SD Junior Chamber of Commerce.

Jo Ann McDonough of Astro Dept. 310 is queen of the meet.

Convair Glider Club members will be in charge of towing operations and radio communications.

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New SD Glider Club Lists 46 Members

Convair's new Glider Club has a present membership of 46 sailplane pilots and would-be pilots, said Jim Saftig, CRA commissioner.

A portable oxygen set and two Lange barographs have been acquired for members' use in establishing national and international soaring standings for badge awards and records.

Meetings will be held quarterly at Jim's Air Service, Lindbergh Field. Information may be obtained by calling E. D. Shattuck, ext. 1133; Sterling Starr, ext. 2421; or George Tweed, ext. 2367, all Plant 1.

Caravan of 23 Cars Carries Rockhounds On Wiley Well Trip

The largest field trip in more than three years was enjoyed by Convair Rockhounds at San Diego when they trekked to the Wiley Well district the weekend of Feb. 8-9.

Many fine specimens of opal, agate, jasper and geodes were picked up by the 73 fans who made up the caravan of 23 cars.

Fred A. Dunivan (Dept. 31), president of the SD club, with assistance of other club members, sponsored 14 Cub Scouts, members of a "Pebble Pup Club."

In reply to several requests for shorter field trips, Dan Whorton, CRA commissioner, said he is continually on the alert for sites nearer home. Most of the good locations, however, are in the desert area which means trips of from 150 to 250 miles. He said a shorter trip, to Mesa Grande, is planned for later in the year.

A field trip to Picacho in the Yuma area is scheduled for the weekend of March 8-9.

Delegation Attends Recreation Meeting

Two men each from Convair San Diego and Astronautics were on hand last weekend in Fresno for the Western Industrial Recreation Association meeting.

J. K. Field and Pete Beyrer attended from SD, while Dick Mitchell and Joe Frivaldsky represented Astro. Ed Feeney of Davidson Brothers also attended.

Roller Skate Party Set For Wednesday

A special roller skate party has been arranged by CRA for all Convair SD and Astro people next Wednesday (Feb. 26) at 7:30 p.m., Skateland Rink, Front and G Sts.

Reduced rates are offered with tickets available at employee services, Bldg. 32, Plant 1, or by ID cards presented at the rink.

CRA Calendar

(Convair Recreation Association has some 40 activities in operation. For information call CRA headquarters, ext. 1245, Plant 1.)

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ARCHERY—Nomination of officers Feb. 20, CRA Clubhouse, 7 p.m.

ASTRONOMY — Constellation instruction class starts March 7, 8 p.m., Gillespie Field.

BASKETBALL—Plant league play-offs Feb. 21-26, Muni Gym, Balboa Park.

BOWLING — Plant championship tournament starts March 1.

BRIDGE — Next session Feb. 27, Barcelona Hotel, 4th & Juniper, 7:30 p.m. Master points tournament March 13.

CAMERA CLUB—Meeting Feb. 24, 7:30 p.m., Photo Arts Bldg., Balboa Park.

CHESS — Plant championship tournament opens Feb. 26, CRA Clubhouse, 7:30 p.m.

GOLF — CRA Sweepstakes March 1-2, Flying Hills. Register before Feb. 26 at ext. 2988, Plant 1. Astro Sweepstakes March 1-2, Circle R Golf Club. Entries close Feb. 27. Call ext. 1158, Plant 1.

MOVIES — Free CRA movies each Friday, 7 p.m., CRA Clubhouse. Feb. 21 — "Bonzo Goes to College." Feb. 28 — "Wild Beauty."

Reduced-price movies each Friday night at Academy Theater, 3721 University Ave.; each Wednesday night at Abalee Theater, National City. Adults, 25c; children, 10c.

ROLLER SKATING — Skate party Feb. 26 at Skateland Rink. Cut-rate tickets available at employee services, Bldg. 32, Plant 1.

SWIMMING — First Convair family night Saturday (March 8) at Mission Beach Plunge, 7-9:30 p.m. Free tickets at employee services, both plants.

TABLE TENNIS — Monthly tournament Feb. 25 at CRA Clubhouse. Second shift, 1 p.m.; first shift, 6:30 p.m.

TENNIS — Round-robin handicap, Balboa Tennis Club, March 8-9. Brunch sessions, 9 a.m.-noon, Saturdays, Balboa Tennis Club.

WOMEN'S ACTIVITIES—Spring fashion show, U. S. Grant Hotel, March 12. Tickets available at employee services, both SD plants, at $1 each.

New Dates Selected For Archer Workshop

Workshop dates for the Convair SD Archery Club have been changed to the second and fourth Thursdays of each month because of conflict with other club meetings.

Members may receive instruction in the making of arrows and bow strings from 7 to 9:30 p.m. in the CRA Clubhouse on workshop nights.

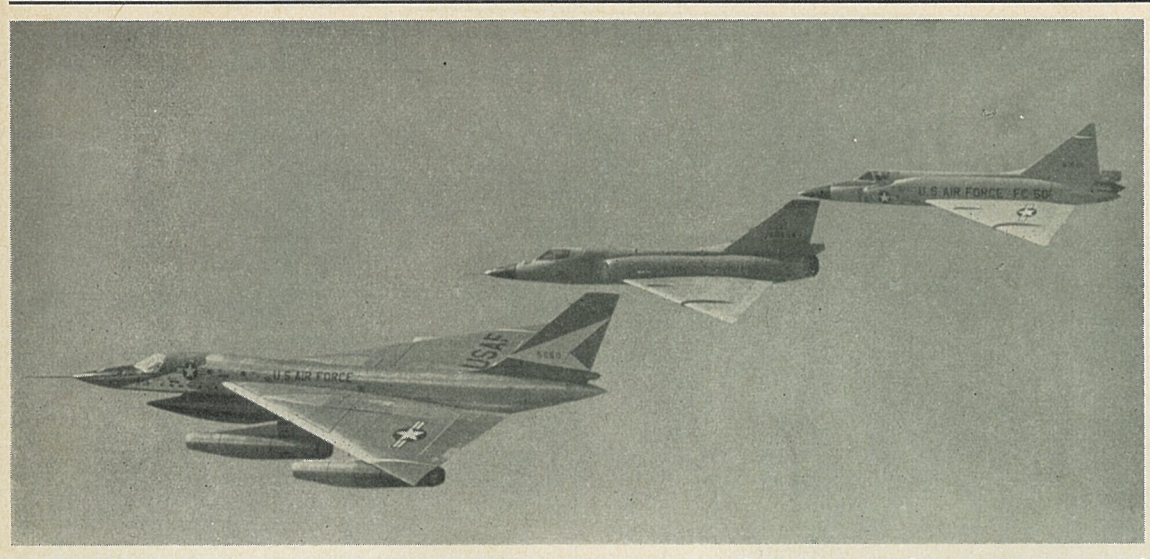
Addition of Sunday afternoon shoots to the regular monthly shoot schedule is under consideration, said Harry Ross, club president. Winners of this month's shoot were: A Division—Oralie Kline, first; Bob Lorch, second; B Division—James Bence, first; Bill Palmer, second; Beavers (8-10), Kenneth Bangsberg; (10-12), Mike Phipps, first; Sandra Yoshihara, second; Linda Stone, third.

Officers will be nominated at the meeting tomorrow (Feb. 20) in the CRA Clubhouse, 7:30 p.m.

Cragheads Shoot 37 To Win Junior Golf

T. C. Craghead and his son Doug, 14, were low in the Parent-Junior golf event Feb. 1 over the Bonita course, carding a nine-hole 37, and collected top prize of a transistor radio.

In the 10-and-under division Gordon Woods and Bobby, 10, tied with Glenn Grantham and John, 9, with 49s. They won gold balls. Other winners, also receiving balls as prizes, were Howard Hatch and Butch, 11, (47), Curly Maxfield and Dennis, 14, (42), Russ Davis and Russ Jr., 15, (46).



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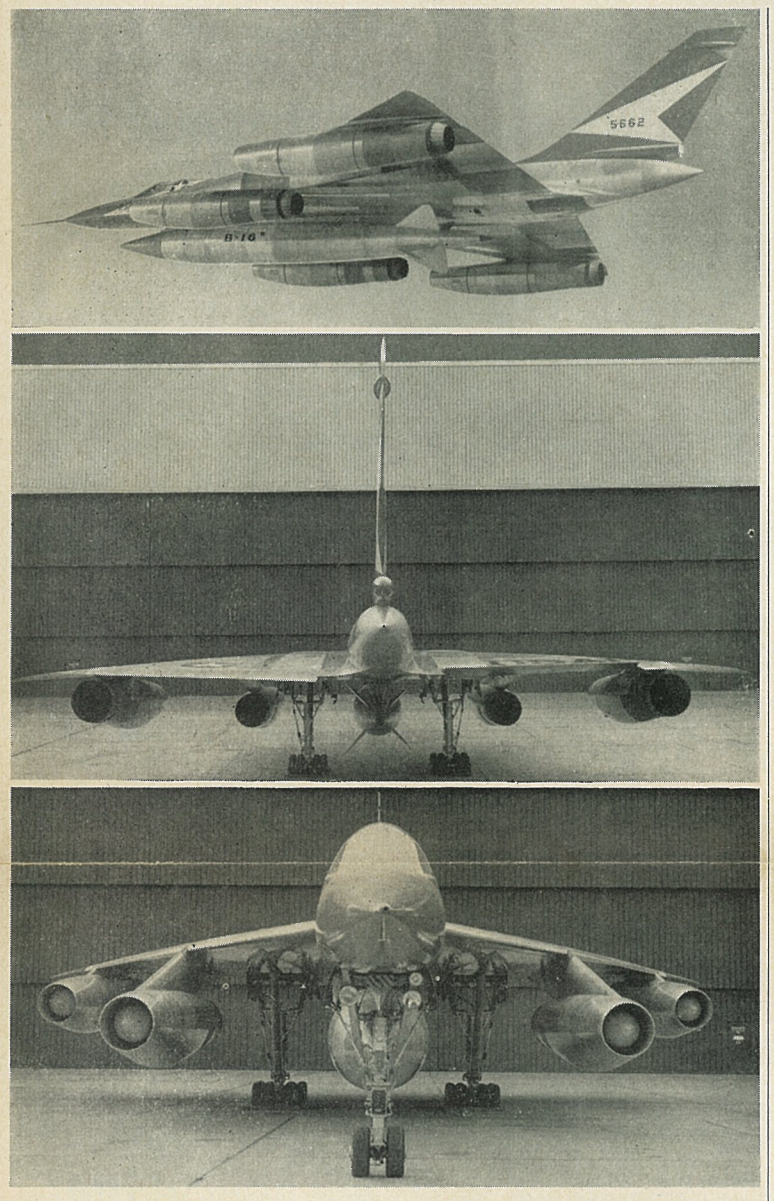

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"But the imminence and the magnitude of the threat have not yet been stated effectively enough by the government itself to engender a national attitude appropriate to that threat.

"Nevertheless, a stepped-up effort is certainly indicated and could be accomplished if all the people who have to invent, produce, and train with the appropriate weapon systems were aware of the urgent need for them.

"It is not enough for high officials of the government to know the threat, or for a small percentage of people in the armed services and in the defense industry to know it. All the people should know it. Not only because they have a right to know it—but because the industry and the services can do an all out job only when the tens of thousands of firms, and millions of workers and servicemen concerned universally understand the urgency of the situation and are thus inspired to use their maximum initiative and working energy per working hours and working day. And, of course, to work more days.

"I would like to express concern in another general area. It has to do with what appears to be an over-optimism as to the real reliability, at early dates, of our ballistic missiles. This over-optimism leads to a concurrent reduction of interest in, and, therefore, diminished development and procurement of the more conventional weapon systems upon which the force in being must rely for many years to come.

"Manned fighters and bombers, and missiles associated with our defense today are suffering for attention these weeks as the more glamorous ballistic missiles of tomorrow enjoy popular emphasis in the budget now being considered.

"This not only tends to demean our deterrent force against all-out war for several years to come, but also further dwindles our ability to support limited warfare — should that exigency come upon us.

"In this respect it is significant that, except for a certain increase in the Atlas which was directed last month, there has been no increase, nor even replacement of cuts effected last summer, on any fighter, bomber, or other missile program with which Convair is concerned.

"One other point. It is encouraging to find the Government taking growing cognizance of the vital and probably decisive role which science and research are playing in the world of today and tomorrow. Our company, like many other elements of private industry, has for some time been investing a considerable portion of its profits of today in research for tomorrow. We know we have to do this to remain competitive in our business. We know our nation must do the same to stay alive and competitive with the scientifically bolstered forces which politically and physically threaten us on the international scene.

"As other witnesses who have appeared before you have agreed, American industry has the capability to continually invent and deliver an ever-appropriate, ever-modernized defense against the formidable enemy's threat of force, whether it be from land, sea, air, or outer space.

"We can exercise this capability, however, only:

"If all of us are frankly told of the size and form and timing of the danger in which we live.

"If we are given a more efficient and decisive organization with which to deal for the procurement of our products for the nation's defense and, equally important:

WE CAN DO MORE—T. G. Lanphier Jr. took lead in representing Convair before Senate subcommittee last month and told members Convair is capable of greater effort.

"If that organization can, as it must for our survival, develop a long range strategic plan for our national defense. A plan related to our international policies. A plan suited to the possibilities of all-out, or of limited conflict.

"I believe that if all the people were clearly informed, the resultant national attitude would afford a climate in which such matters as the appropriate plan, the appropriate organization and the appropriate amount of money for defending ourselves would fall logically and quickly into line."

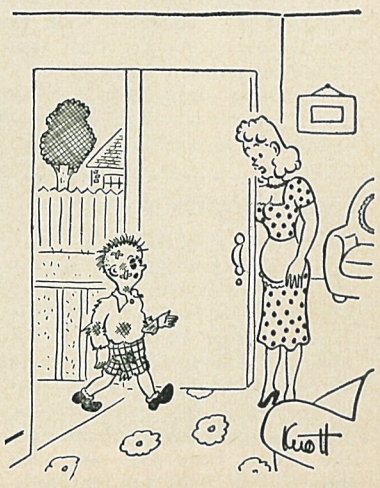
* * *

Lanphier and Teller On College Panel

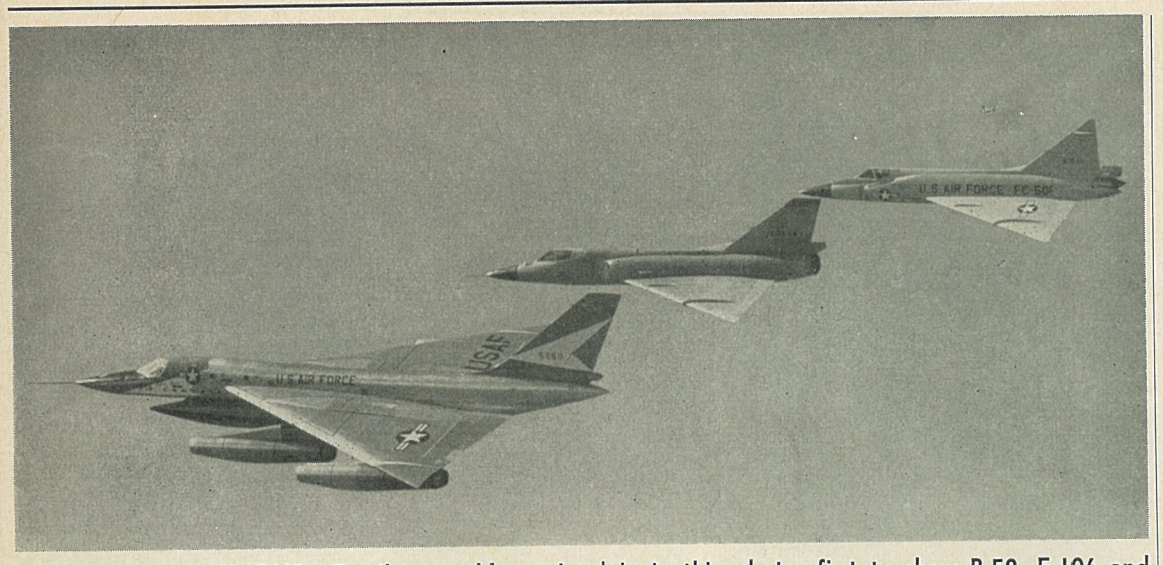
"Does the panel really believe the U. S. and Russia can live side by side in peace? Isn't war to the death unavoidable?"

This and many other searching questions were tackled Jan. 24 at Rockhurst College in Kansas City, Mo. by a panel which included Convair's T. G. Lanphier Jr. Others were Dr. Edward Teller, widely considered the nation's leading physicist, and Lt. Gen. James Doolittle, World War II hero. Subject of the symposium was "Progress or Annihilation: Education and Other Weapons in the Fight for Peace."

Lanphier's reply to this particular question was, in part: "I believe that the chances are . . . better than even that within the next three to five years we will be in some sort of atomic conflict with the Soviets unless we increase our current effort over the next couple of years by at least 30 to 50 per cent over what we are talking about now . . ."



"My cold war with Junior Higgins suddenly turned hot."



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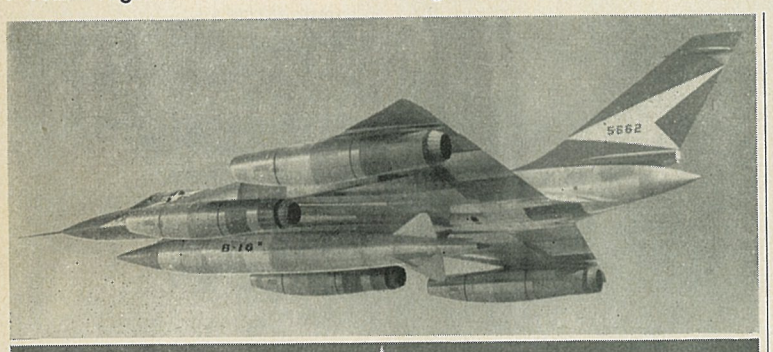

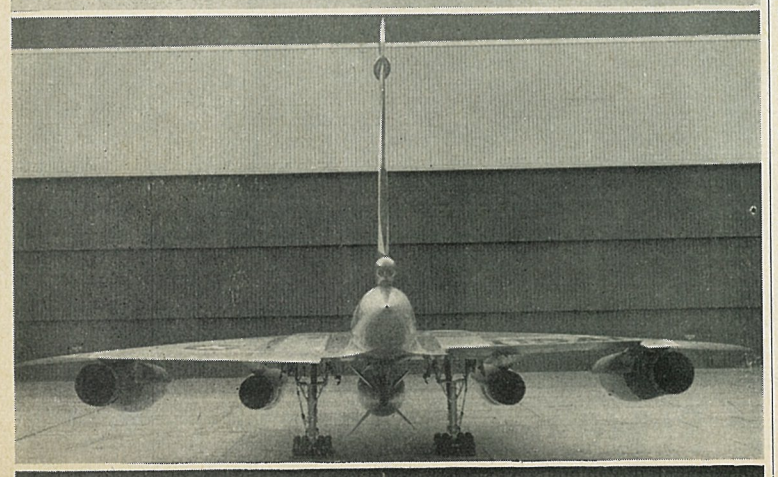

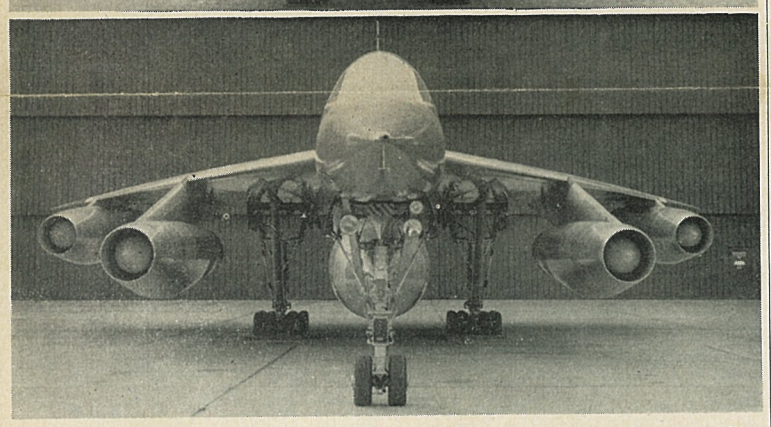

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"But the imminence and the magnitude of the threat have not yet been stated effectively enough by the government itself to engender a national attitude appropriate to that threat.

"Nevertheless, a stepped-up effort is certainly indicated and could be accomplished if all the people who have to invent, produce, and train with the appropriate weapon systems were aware of the urgent need for them.

"It is not enough for high officials of the government to know the threat, or for a small percentage of people in the armed services and in the defense industry to know it. All the people should know it. Not only because they have a right to know it—but because the industry and the services can do an all out job only when the tens of thousands of firms, and millions of workers and servicemen concerned universally understand the urgency of the situation and are thus inspired to use their maximum initiative and working energy per working hours and working day. And, of course, to work more days.

"I would like to express concern in another general area. It has to do with what appears to be an over-optimism as to the real reliability, at early dates, of our ballistic missiles. This over-optimism leads to a concurrent reduction of interest in, and, therefore, diminished development and procurement of the more conventional weapon systems upon which the force in being must rely for many years to come.

"Manned fighters and bombers, and missiles associated with our defense today are suffering for attention these weeks as the more glamorous ballistic missiles of tomorrow enjoy popular emphasis in the budget now being considered.

"This not only tends to demean our deterrent force against all-out war for several years to come, but also further dwindles our ability to support limited warfare — should that exigency come upon us.

"In this respect it is significant that, except for a certain increase in the Atlas which was directed last month, there has been no increase, nor even replacement of cuts effected last summer, on any fighter, bomber, or other missile program with which Convair is concerned.

"One other point. It is encouraging to find the Government taking growing cognizance of the vital and probably decisive role which science and research are playing in the world of today and tomorrow. Our company, like many other elements of private industry, has for some time been investing a considerable portion of its profits of today in research for tomorrow. We know we have to do this to remain competitive in our business. We know our nation must do the same to stay alive and competitive with the scientifically bolstered forces which politically and physically threaten us on the international scene.

"As other witnesses who have appeared before you have agreed, American industry has the capability to continually invent and deliver an ever-appropriate, ever-modernized defense against the formidable enemy's threat of force, whether it be from land, sea, air, or outer space.

"We can exercise this capability, however, only:

"If all of us are frankly told of the size and form and timing of the danger in which we live.

"If we are given a more efficient and decisive organization with which to deal for the procurement of our products for the nation's defense and, equally important:

WE CAN DO MORE—T. G. Lanphier Jr. took lead in representing Convair before Senate subcommittee last month and told members Convair is capable of greater effort.

"If that organization can, as it must for our survival, develop a long range strategic plan for our national defense. A plan related to our international policies. A plan suited to the possibilities of all-out, or of limited conflict.

"I believe that if all the people were clearly informed, the resultant national attitude would afford a climate in which such matters as the appropriate plan, the appropriate organization and the appropriate amount of money for defending ourselves would fall logically and quickly into line."

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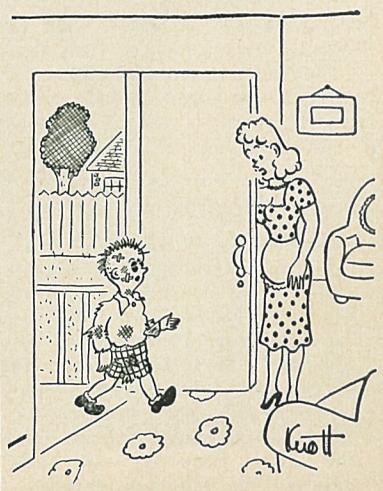
Lanphier and Teller On College Panel

"Does the panel really believe the U. S. and Russia can live side by side in peace? Isn't war to the death unavoidable?"

This and many other searching questions were tackled Jan. 24 at Rockhurst College in Kansas City, Mo. by a panel which included Convair's T. G. Lanphier Jr. Others were Dr. Edward Teller, widely considered the nation's leading physicist, and Lt. Gen. James Doolittle, World War II hero. Subject of the symposium was "Progress or Annihilation: Education and Other Weapons in the Fight for Peace."

Lanphier's reply to this particular question was, in part: "I believe that the chances are . . . better than even that within the next three to five years we will be in some sort of atomic conflict with the Soviets unless we increase our current effort over the next couple of years by at least 30 to 50 per cent over what we are talking about now . . ."



"My cold war with Junior Higgins suddenly turned hot."